

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 01-181537

(43)Date of publication of application : 19.07.1989

(51)Int.Cl.

H01L 21/52
H01L 21/60
H01L 21/68
// B23Q 5/28

(21)Application number : 63-005243

(71)Applicant : NEC CORP

(22)Date of filing : 12.01.1988

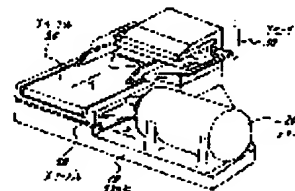
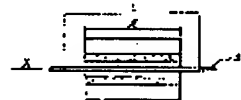
(72)Inventor : MATSUMOTO ITARU

(54) XY TRANSFER STAGE

(57)Abstract:

PURPOSE: To obtain highly mechanical rigidity and excellent controllability by directly driving a Y table without using a joint by a linear motor constituted by a flatly wound coil and a magnetic circuit that forms a magnetic filed perpendicular to the XY plane and opposed to each other.

CONSTITUTION: When a X table 40 is driven by a X motor 20, a coil 33 also moves in the arrow X direction together with the X table 40. However, since the difference between the internal diameter L of the coil in the X direction and length l of magnetic circuits 31, 33 is set larger than the amount of transfer of the X table 40, the performance of a Y motor 30 as a motor does not change. Also, since the winding direction of a coil in the magnetic filed formed by magnetic circuits 31, 32 and the X direction are parallel, the linear motor 30 does not receive resistance or thrust to the movement in the X direction. This makes it possible to enhance mechanical rigidity and improve controllability.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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